

## Secondary Science Education/Agriculture Double Major

<b>Name:</b>			
<b>General Education Requirements</b>			
<b>Fundamental Studies</b>			
<i>Requirements: ___ credits</i>	Course	Credits	Grade
Academic Writing (AW)	ENGL 101	3	
Professional Writing (PW)		3	
Oral Comm. (OC)		3	
Math (MA)	MATH 113	3	
Analytic Reasoning (AR)		3	
<b>Distributive Studies</b>			
<i>Requirements: ___ credits</i>	Course	Credits	Grade
Natural Science Lab (NL)	BSCI 160/161	4	
Natural Sciences (NS or NL)	CHEM 131/132	4	
History/Social Sciences (HS)	TLPL 414	3	
History/Social Sciences (HS)		3	
Humanities (HU)		3	
Humanities (HU)		3	
Scholarship in Practice (SP)	TLPL 101 & TLPL 102	3	
Scholarship in Practice (SP; non major)		3	
<b>I-Series</b>			
<b>Normally double counted with Distributive Studies</b>			
<i>Requirements: ___ credits</i>	Course	Credits	Grade
I-Series (IS)		3	
I-Series (IS)		3	
<b>Diversity</b>			
<b>(overlap permitted with Distributive Studies and/or I-series)</b>			
<i>Requirements: ___ credits</i>	Course	Credits	Grade
Understanding Plural Soc. (UP)		3	
Understanding Plural Soc. (UP) or Cultural Competency (CC)	TLPL 401	3	
<b>Experiential Learning- optional</b>			
<b>(overlap permitted with other requirements/courses)</b>			
<i>Requirements: ___ credits</i>	Course	Credits	Grade

Students must earn a minimum of 120 credits to complete a degree.

**Requirements for Graduation:**

At least 30 credits must be earned at UMD

15 of the final 30 credits must be earned at the 300-400 level

12 upper level major credits must be earned at UMD

\* Double count with Gen Ed requirement

<b>UID:</b>		
<b>Major Requirements (Grade of C- or higher is required unless otherwise noted.)</b>		
UNIV 100		1
<b>Year 1 - Benchmark Requirement</b>		
AW with C- or higher		
MA with C- or higher		
<b>Gateway Requirement</b>		
TLPL 401 with B- or higher		3
9 credits of content course work with C- or higher		
<b>Major Requirements</b>		
<i>Requirements</i>	Credits	Grade
ANSC 101/103 Principles of Animal Sci./Lab	4	
ANSC 240 Dairy Cattle Management -or- ANSC 220 Livestock Management	3	
ANSC 340 Health Mgmt of Animal Populations -or- AREC Restricted Elective	3	
±ANSC Restricted Elective	3	
ANSC/PLSC/LARC Restricted Elective	3	
*AREC 250 Elements of Agr & Resources Econ	3	
*BSCI 160 / 161 Principles of Ecol & Evol	4	
*BSCI 170 / 171 Principles of Mol & Cell Biology	4	
+Entomology Requirement:	3	
*CHEM 131/132 Chemistry I/Gen Chem I Lab	4	
*CHEM 104 Fund of Organic & Biochemistry	4	
ENBE 200 Fund of Agricultural Mechanics	3	
ENST 200: Fund of Soil Science	4	
*PLSC 101 Introductory Crop Science	4	
PLSC 420 Plant Pathology -or- ±AREC Restricted Elective	3 or 4	
PLSC 460 Application of Knowledge in Plant Sci	3	
PLSC 453 Weed Science	3	
±PLSC Restricted Elective	3	
<p><i>*May fulfill Gen Ed Requirements</i></p> <p><i>+Requirement can be met by taking: BSCI 120, BSCI 337 or BSCI 497</i></p> <p><i>± Restricted Electives are restricted to classes with the designated prefix</i></p>		
<b>Pre-Professional Education Requirements</b>		
TLPL 101 Inquiry Teaching of STEM in Elementary School		1
TLPL 102 Inquiry Teaching of STEM in Middle School		2
EDHD 426 Cognitive and Motivational Literacy Content		3
TLPL 415 Perspectives in Science*		3
TLPL 414 Knowing and Learning		3
TLPL 401 Project Based Instruction		3
<b>Professional Education Requirements</b>		
BSCI 348T Research Methods* (Stsfd in TLPL 415, formal chng in prcs)	--	--
TLPL 425 Learning and Teaching in Science (AGST 425)		3
TLPL 479L Field Experiences in Science Education (Fall Only)		1
TLPL 489L Student Teaching in Sec Sci (Spring Only)		12
TLPL 478L Professional Seminar in Education		2
TLPL 481 Embracing Diversity in the Classroom Community (Fall)		3

## Secondary Science Education/Agriculture Double Major Four Year Academic Plan

<b>Year 1</b>	Fall	Cr.	Spring	Cr.
Benchmark Requirements AW with C- or higher MA with C- or higher	CHEM 131/132 (NL)	4	CHEM 104	4
	PLSC 101	4	HUMANITIES (HU)*	3
	MATH 113 (MA)	3	BSCI 160/161 (NL)	4
	ANSC 101/103	4	ENGL 101 (AW)	3
	TLPL 101	3	TLPL 102 (SP, with TLPL 101)	2
	UNIV 100	1		
	<i>Total</i>	19	<i>Total</i>	16
<b>Year 2</b>	Fall	Cr.	Spring	Cr.
	BSCI 170/171	4	AREC 250	3
	ENBE 200	3	ENST 200	3
	ANSC 240 or ANSC 220	3	PLSC Restricted Elective	3
	ANALYTIC REASONING (AR)	3	HISTORY/SOCIAL SCIENCE (HS)*	3
	TLPL 414 (HS)	3	Entomology Requirement	3
	<i>Total</i>	16	<i>Total</i>	15
<b>Year 3</b>	Fall	Cr.	Spring	Cr.
<i>Apply to the COE by Dec. 1st</i>	PLSC 420 or AREC Restricted Elective	3-4	TLPL 415	3
Gateway Requirement: TLPL 401 with B- or higher Minimum 2.75 cumulative GPA	SCHOLARSHIP IN PRACTICE (SP, non-education)*	3	ANSC 340 or AREC Restricted Elective	3
	Professional Writing (PW)	3	PLSC 460	3
	TLPL 401 (CC)	3	HUMANITIES (HU)	3
	ORAL COMMUNICATION (OC)	3	EDHD 426	3
	<i>Total</i>	15-16	<i>Total</i>	15
<b>Year 4</b>	Fall	Cr.	Spring	Cr.
	<b>YEARLONG INTERNSHIP</b>			
	TLPL 425 (AGST425)	3	TLPL 489L	12
	TLPL 479L	1	TLPL 478L	2
	TLPL 481	3		
	ANSC Restricted Elective	3		
	PLSC 453	3		
	<i>Total</i>	13	<i>Total</i>	14

Total degree credits: 123-124

**This is a proposed plan and the College of Education does not guarantee that these courses will be offered in the designated semester. Consult the *Schedule of Classes* for class availability**

**\*All students must complete two Distribute Studies courses that are approved for I-series courses. Students must complete Understanding Plural Society and Cultural Competence courses that may also fulfill a Distributive Studies category.**

**Students must also meet with their Academic Advisor in AGNR to discuss the AGNR course requirements.**

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JLC 02/11/2021